	Туре	Ref #	Hits	Search Text	DBs
1	BRS	S15	6		US-PGPUB; USPAT; USOCR
2	BRS	S14	204	429//322	US-PGPUB; USPAT; USOCR
3	BRS	S13	5	S9 and lithium and (film layer) and electrode and binder\$2 and (porosity porous pores) and particle\$2 and separator\$2 and (styrene polyethylene ptfe polyvinylidene pvdf fep polyacrilic polyacrylonitryle) and ((inorganic near oxide\$2) alumina silica zirconia titania)	US-PGPUB; USPAT; USOCR
4	BRS	S9	77	429//321	US-PGPUB; USPAT; USOCR
5	BRS	S18	1436	429//231.95	US-PGPUB; USPAT; USOCR
6	BRS	S12	8		US-PGPUB; USPAT; USOCR
7	BRS	S10	63	S9 and lithium and (film layer)	US-PGPUB; USPAT; USOCR
8	BRS	S11	32	S9 and lithium and (film layer) and electrode and binder\$2	US-PGPUB; USPAT; USOCR

	Туре	Ref #	Hits	Search Text	DBs
9	BRS	S19	161	S18 and lithium and (film layer) and electrode and binder\$2 and (porosity porous pores) and particle\$2 and separator\$2 and (styrene polyethylene ptfe polyvinylidene pvdf fep polyacrilic polyacrylonitryle) and ((inorganic near oxide\$2) alumina silica zirconia titania)	US-PGPUB; USPAT; USOCR
10	BRS	s7	0	(hei).in. and battery	JPO
11	BRS	S17	3	' 2	US-PGPUB; USPAT; USOCR
12	BRS	S5	0	, , , ,	US-PGPUB; USPAT; USOCR
13	BRS	S8	14	<u> </u>	US-PGPUB; USPAT; USOCR

	Туре	Ref	# Hits	Search Text	DBs
14	BRS	S20	38	S18 and lithium and (film layer) and electrode and binder\$2 and (porosity porous pores) and particle\$2 and separator\$2 and (styrene polyethylene ptfe polyvinylidene pvdf fep polyacrilic polyacrylonitryle) and ((inorganic near oxide\$2) alumina silica zirconia titania) and (insulat\$3 adj3 (film layer))	US-PGPUB; USPAT; USOCR
15	BRS	S 6	0	(hei).in. and (lithium same battery)	JPO
16	BRS	S4	IL J	hei.in. and (lithium same battery)	US-PGPUB; USPAT; USOCR
17	BRS	S1	1	10/562438	US-PGPUB
18	BRS	s3	(1.)	hei.in. and (lithium same battery)	US-PGPUB
19	BRS	S2	1	S1 and apparent	US-PGPUB
20	BRS	S16	88	429//323	US-PGPUB; USPAT; USOCR
21	BRS	S34	0	S25 and (insulat\$4 near5 film) and film\$2 and (oxide same filler same binder)	USPAT
22	BRS	S44	1	S25 and pore\$2	USPAT
23	BRS	S40	1	S25 and thickness and porosity	USPAT
24	BRS	S41	11	S25 and thickness and porosity and size\$2	USPAT
25	BRS	S42	i	S25 and thickness and porosity and size\$2 and thick	USPAT
26	BRS	S45	0	S25 and polycrystal\$6	USPAT
27	BRS	S46	1	S25 and crystal\$5	USPAT
28	BRS	S56		kawakami.in. and (inorganic near5 oxide) and \$5crystal\$5 and battery and lithium	US-PGPUB; USPAT

	Туре	Ref #	Hits	Search Text	DBs
29	BRS	S61	1	S25 and size\$2 and separator and porosity and porous	USPAT
30	BRS	S43	1	S25 and (pore same size\$2)	USPAT
31	BRS	S48	1	S25 and particle\$3 and \$5crystal\$5	USPAT
32	BRS	S47	1	S25 and particle\$3	USPAT
33	BRS	S23	48	inoue.in. and electrode and (inorganic oxide filler) and film and	US-PGPUB; USPAT; USOCR
34	BRS	S22	127	inoue.in. and electrode and (inorganic oxide filler) and film and (pores porous porosity) and (binder\$2 adhesive\$2)	US-PGPUB; USPAT; USOCR
35	BRS	S38	1	S25 and (insulat\$4 near5 film) and film\$2 and oxide and (adhesiv\$4 binder)	USPAT
36	BRS	S31	1	S25 and (organic near5 electrolyte)	USPAT
37	BRS	s37	0	S25 and (insulat\$4 near5 film) and film\$2 and filler and adhesiv\$4	USPAT
38	BRS	S39	1	S25 and (insulat\$4 near5 film) and film\$2 and oxide and (adhesiv\$4 binder) and (cover\$3 near5 film)	USPAT
39	BRS	S25	1	"6395423".pn.	USPAT
40	BRS	S24	9		US-PGPUB; USPAT; USOCR

	Туре	Ref	# Hits	Search Text	DBs
41	BRS	S28	0	S25 and aqueous	USPAT
42	BRS	S30	1	S25 and electrolyte and separator and electrode\$2 and battery	USPAT
43	BRS	S49	1	10/562438	US-PGPUB
44	BRS	S29	1	S25 and electrolyte and separator and electrode\$2	USPAT
45	BRS	S54	2	kawakami.in. and (inorganic near5 oxide) same \$5crystal\$5	US-PGPUB; USPAT
46	BRS	S50	1	S49 and polycrystal\$6	US-PGPUB
47	BRS	S52	0	kawakimi.in. and (inorganic near5 oxide)	US-PGPUB; USPAT
48	BRS	S53	70	kawakami.in. and (inorganic near5 oxide)	US-PGPUB; USPAT
49	BRS	S51	0	kawakimi.in. and (inorganic near5 oxide)	US-PGPUB
50	BRS	S55	48	kawakami.in. and (inorganic near5 oxide) and \$5crystal\$5	US-PGPUB; USPAT
51	BRS	S36	0	S25 and (insulat\$4 near5 film) and film\$2 and oxide and filler and adhesiv\$4	USPAT
52	BRS	S58	0	S57 and \$5crystal\$5	USPAT
53	BRS	S59	1	S25 and size and separator	USPAT
54	BRS	S63	0	S57 and separator and por\$6	USPAT
55	BRS	S62	1	S25 and size\$2 and separator and porosity and porous and pore	USPAT
56	BRS	S60	1	S25 and size\$2 and separator	USPAT
57	BRS	S21	14966	inoue.in.	US-PGPUB; USPAT; USOCR
58	BRS	S65	1	"6811928".pn.	USPAT
59	BRS	S67	1	S65 and separator and por\$6	USPAT
60	BRS	S64	0	S57 and separator	USPAT
61	<del></del>	S57	1	"6811982".pn.	USPAT
62	BRS	S66	0	S65 and \$5crystal\$5	USPAT

	Туре	Ref #	Hits	Search Text	DBs
63	BRS	S26	0	S25 and (aqueous same electrolyte same battery) and (positive same negative same electrode\$2 same separator\$2)	USPAT
64	BRS	S35	0	S25 and (insulat\$4 near5 film) and film\$2 and oxide and filler and binder	USPAT
65	BRS	S32	1	S25 and electrolyte	USPAT
66	BRS	s33	1	S25 and (insulat\$4 near5 film)	USPAT
67	BRS	S27	0	S25 and (aqueous same electrolyte same battery) and (electrode\$2 same separator\$2)	USPAT
68	BRS	S71	3843	S70 separator and actual and ratio	US-PGPUB
69	BRS	s72	1	S70 and separator and actual and ratio	US-PGPUB
70	BRS	s73	0	(zhang same zhangming).in.	US-PGPUB; USPAT
71	BRS	S81	3	S77 and separator and film and porosity and size\$2 and pore	US-PGPUB; USPAT
72	BRS	S85	0	land senarator and lithiim	US-PGPUB; USPAT
73	BRS	S86	0	S82 and separator and lithium and battery	US-PGPUB; USPAT
74	BRS	S111	1	"6395423".pn.	USPAT
75	BRS	S87	3	S82 and battery	US-PGPUB; USPAT
76	BRS	s70	1	10/562438	US-PGPUB
77	BRS	S97	1	S96 and porosity	US-PGPUB; USPAT; USOCR
78	BRS	S83	0	_	US-PGPUB; USPAT

	Туре	Ref #	Hits	Search Text	DBs
79	BRS	S109	1	S108 and polypropylene and separator and porosity	US-PGPUB; USPAT; USOCR
80	BRS	S110	l		US-PGPUB; USPAT; USOCR
81	BRS	S74	0	cellgard.as.	US-PGPUB; USPAT
82	BRS	s75	55	celgard.as.	US-PGPUB; USPAT
83	BRS	s76	23	celgard.as. and separator and lithium and battery	US-PGPUB; USPAT
84	BRS	S93	733	(lithium same battery) and separator and ((insulative insulating ceramic) near5 (layer film)) and (pore porous porosity)	US-PGPUB; USPAT; USOCR
85	BRS	S96	1	"6395423".pn.	US-PGPUB; USPAT; USOCR
86	BRS	S106	1	"4791144".pn.	US-PGPUB; USPAT; USOCR
87	BRS	S103	30	1	US-PGPUB; USPAT; USOCR
88	BRS	S108	1	"6881515".pn.	US-PGPUB; USPAT; USOCR
89	BRS	S88	372	(lithium same battery) and (separator near5 porosity)	
90	BRS	S89	359	<pre>(lithium same battery) and (separator near5 porosity) and (ceramic nea5 (layer film)) and (pore porous porosity)</pre>	US-PGPUB; USPAT; USOCR
91	BRS	S90	11	(lithium same battery) and (separator near5 porosity) and (ceramic near5 (layer film)) and (pore porous porosity)	US-PGPUB; USPAT; USOCR

	Туре	Ref #	Hits	Search Text	DBs
92	BRS	S82	67	(ito same masanori).in.	US-PGPUB; USPAT
93	BRS	S91	0	<pre>(lithium same battery) and (separator near5 porosity) and (ceramic near5 (layer film)) and (pore porous porosity)</pre>	EPO; JPO; DERWENT
94	BRS	S94	96		US-PGPUB; USPAT; USOCR
95	BRS	S104	30	-	US-PGPUB; USPAT; USOCR
96	BRS	S105	41	(lithium near battery) and ((inorganic ceramic) same (layer film separator coat\$3) same porosity) and porosity	US-PGPUB; USPAT; USOCR
97	BRS	S78	1	1"h4 3 / 5 X h "	US-PGPUB; USPAT
98	BRS	S79	1	S78 and separator and film and porosity	USPAT
99	BRS	S80	1	S78 and separator and film	US-PGPUB; USPAT
100	BRS	S98	1		USPAT
101	BRS	S99	1	isyn and dorosiiv	US-PGPUB; USPAT; USOCR
102	BRS	S100	1	m6/8///Um.pn.	US-PGPUB; USPAT; USOCR
103	BRS	S101	1	S100 and porosity	US-PGPUB; USPAT; USOCR
104	BRS	S102	96	(lithium near battery) and (separator same	US-PGPUB; USPAT; USOCR
105	BRS	S107			US-PGPUB; USPAT; USOCR

	Туре	Ref #	Hits	Search Text	DBs
106	BRS	S84	0	(ito same masanori).in. and separator and lithium and battery and film	US-PGPUB; USPAT
107	BRS	S113	1	S111 and (porosity pore size\$2 porous) and separator and inorganic	USPAT
108	BRS	S112	0	S111 and (porosity pore size\$2 porous) and separator and filler	USPAT
109	BRS	S69	17	(lithium same battery) and (insulat\$4 near5 (film layer)) and (separator near5 porosity) and ((insulat\$4 near5 (film layer)) same porosity)	US-PGPUB; USPAT; USOCR
110	BRS	S68	357	HINSHLATS4 NEARS (TILM	US-PGPUB; USPAT; USOCR
111	BRS	S95	100	•	US-PGPUB; USPAT; USOCR
112	BRS	s77	12	(//hang same //hengming) in	US-PGPUB; USPAT
113	BRS	S92		(lithium same battery) and (separator same porosity) and (ceramic pears (layer	US-PGPUB; USPAT; USOCR
114	BRS	S150		particles and colloid\$3	USPAT
				(sol near5 polycrystalline) and particles	USPAT
116	BRS	S153	0	S114 and binder	USPAT

	Туре	Ref #	Hits	Search Text	DBs
117	BRS	S172	63	(lithium same battery) and (roughness near3 (anode cathode electrode)) and roughness	US-PGPUB; USPAT
118	BRS	S146	1	S118 and inorganic	USPAT
119	BRS	S148	0	(sol near5 polycrystalline) and particles and colloid	USPAT
120	BRS	S145	0	S118 and filler\$2	USPAT
121	BRS	S149		(sol near5 polycrystalline) and particles and coloid	USPAT
122	BRS	S117		S116 and lithium and battery and film and porosity	EPO; JPO; DERWENT
123	BRS	S138	1	S118 and crystal\$5 and size\$2	USPAT
124	BRS	S141	1	S134 and polycrystal\$	US-PGPUB
125	BRS	S140	0	S134 and polycrystal\$^	US-PGPUB
126	BRS	S144	125	<pre>(lithium same battery) and (filler\$2 same (crystalline polycrystal\$5 crystal\$))</pre>	US-PGPUB; USPAT
127	BRS	S139	0 ·		US-PGPUB
128	BRS	S173		(lithium same battery) and (roughness near3 (anode cathode electrode)) and roughness	US-PGPUB; USPAT; USOCR
129	BRS	S143	25	(lithium same battery) and (filler\$2 same (crystalline polycrystal\$5 crystal\$) same film)	US-PGPUB; USPAT
130				same adhesion) and roughness	US-PGPUB; USPAT
					US-PGPUB
132	BRS	S160	0	S130 and binder\$2	US-PGPUB

	Туре	Ref #	Hits	Search Text	DBs
133	BRS	S137	29	<pre>(lithium same battery) and (electrode same roughness) and (dry\$3 same (speed rate))</pre>	I and the second
134	BRS	S171	203	· ·	US-PGPUB; USPAT
135	BRS	S176	1	S118 and void\$2	USPAT
136	BRS	S135	1	S134 and electrode\$2 and rough\$4	US-PGPUB
137	BRS	S136	170	(lithium same battery) and (electrode same roughness)	
138	BRS	S119	0	S114 and separator and porosity	USPAT
139	BRS	S131	1	S130 and porosity	US-PGPUB
140	BRS	S133	1	\$130 and pore and size\$2	US-PGPUB
141	BRS	S127	l	sun.in. and (lithium near5 battery) and (heat near activatabl)	USPAT
142	BRS	S130	1	"20030152828"	US-PGPUB
143	BRS	S129		sun.in. and (lithium near5 battery) and (heat near activatable)	US-PGPUB; USPAT
144	BRS	S132	1	S118 and pore and size\$3	USPAT
145	BRS	S128	0	narrervi and (hear hear	US-PGPUB; USPAT
146	BRS	S168		, · · · · · · · · · · · · · · · · · · ·	US-PGPUB; USPAT
147	BRS	S161	1	S130 and part\$2	US-PGPUB
148	BRS	S158	1	S118 and part\$2	USPAT
149	BRS	S152	1	S130 and size\$2	US-PGPUB
150				S118 and separator and porosity	USPAT .
151	BRS	S163	1	S118 and colloid\$3	USPAT
152	BRS	S118	1	"6395423".pn.	USPAT

	Туре	Ref #	Hits	Search Text	DBs
153	BRS	S115	9	S114 and lithium and battery and film and porosity	EPO; JPO; DERWENT
154	BRS	S164	1	"6811928".pn.	USPAT
155	BRS	S126	3	S125 and (lithium near5 battery) and (separator\$4 near5 porosity) and porosity and separator	US-PGPUB; USPAT
156	BRS	S162	0	S118 and colloid\$3	US-PGPUB
157	BRS	S174	0	S130 and void\$2	US-PGPUB
158	BRS	S169	34	(lithium same battery) and (roughness same adhesion same electrode) and roughness	US-PGPUB; USPAT
159	BRS	S170	35	_	US-PGPUB; USPAT
160	BRS	S114	4301	H01M006/18	EPO; JPO; DERWENT
161	BRS	S175	0	S130 and void\$2	USPAT
162	BRS	S165	1	S164 and filler	USPAT
163	BRS	S123	276	(lithium near5 battery) and (separator\$4 near5 porosity) and porosity	US-PGPUB; USPAT
164	BRS	S121	1	porosit\$4	USPAT
165	BRS	S156	1	S118 and cross\$7 and binder	USPAT
166	BRS	S124	1/1/20	(lithium near5 battery) and (separator\$4 near5 porosity) and porosity and separator	US-PGPUB; USPAT
167	BRS	S122		land (separators4 nears	US-PGPUB; USPAT
168	BRS	S116	17647	H01M004/58	EPO; JPO; DERWENT
169	BRS	S125	707	nagayama.in.	US-PGPUB; USPAT

	Туре	Ref #	Hits		DBs
170	BRS	S166	65	(lithium same battery) and (surface same roughness same adhesion)	US-PGPUB; USPAT
171	BRS	S159	10.3	S130 and binder\$2 and part\$2	US-PGPUB
172	BRS	S151	0	S130 and size\$2	USPAT
173	BRS	S157	11 1	S118 and cross\$7 and binder and weight	USPAT
174	BRS	S142		(lithium same battery) and (filler\$2 same (crystalline polycrystal\$5 crystal\$) same film)	US-PGPUB
175	BRS	S155	1	S118 and cross\$7	USPAT
176	BRS	S154	0	S114 and cross\$7	USPAT

	Туре	L #	Hits	Search Text	DBs
1	BRS	L1	255	ICTIIKIIMOTO SAME	US- PGPUB; USPAT; USOCR
2	BRS	L2	29	(fukumoto same yusuke) (hayashi same	USOCR
3	BRS	L3	25	(fukumoto same yusuke) (hayashi same tetsuva)) in and	US- PGPUB; USPAT; USOCR